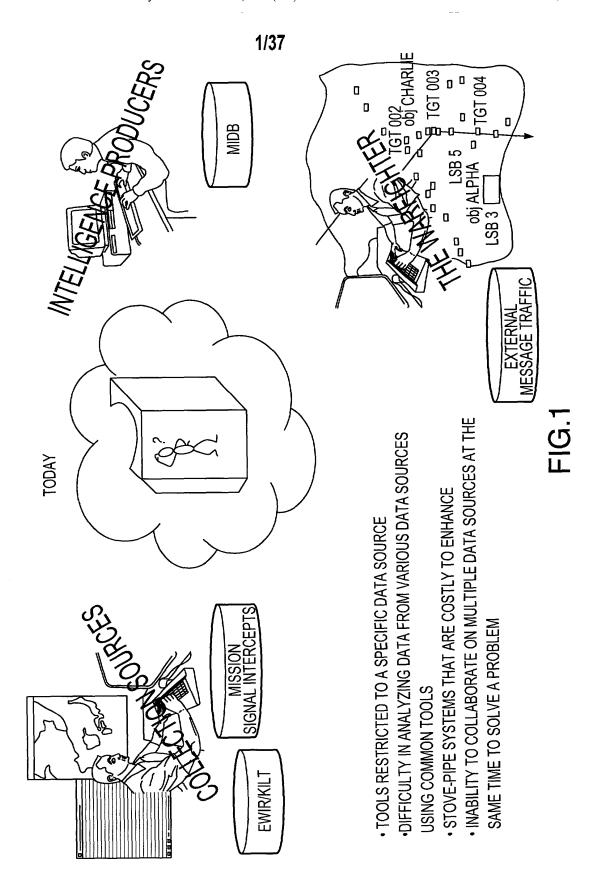
Serial No.: 09/782,926 Page 1 of 37 Γitle: "Information Access, Collaboration And Integration System And

Applicant: Douglas R. Foster, et al.

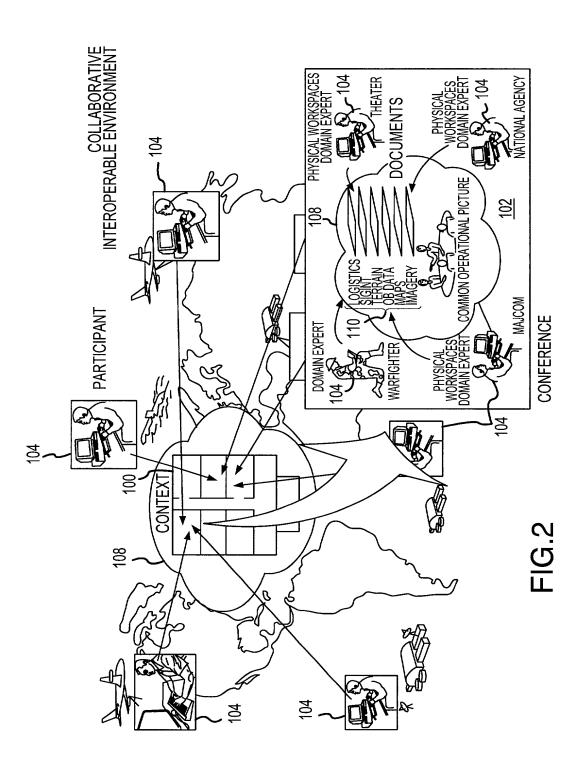
Docket No.: 41992-00405 Attorney: Robert B. Berube, Tel: (303) 338-0997



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Applicant: Douglas R. Foster, et al. Docket No.: 41992-00405 Attorney: Robert B. Berube, Tel: (303) 338-0997

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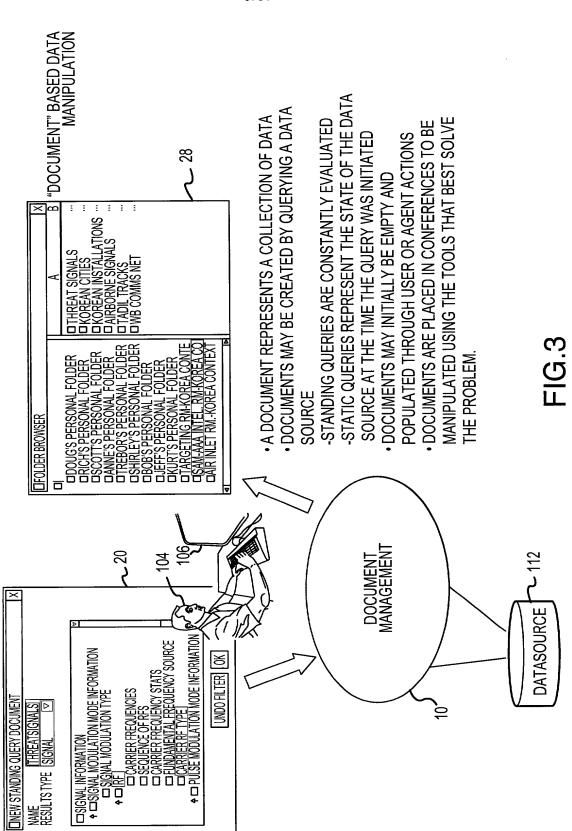
Serial No.: 09/782,926 Page 3 of 3/ Fitle: "Information Access, Collaboration And Integration System And

Method"

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Method"

Applicant: Douglas R. Foster, et al.

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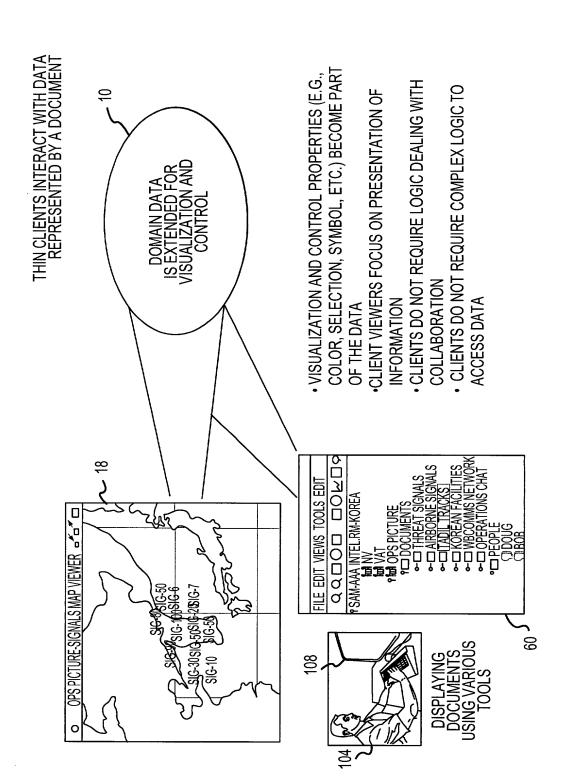


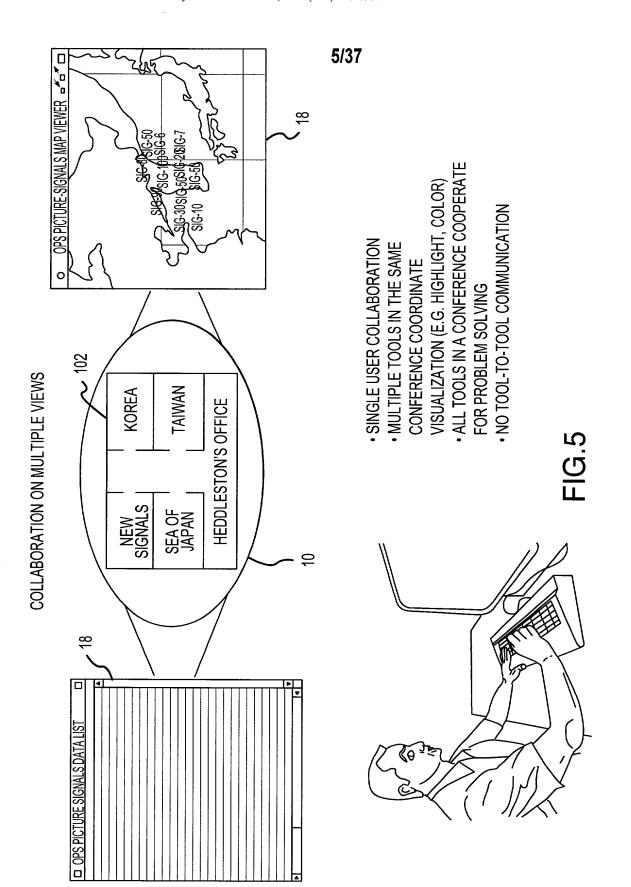
FIG.4

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Method"

Applicant: Douglas R. Foster, et al. Docket No.: 41992-00405

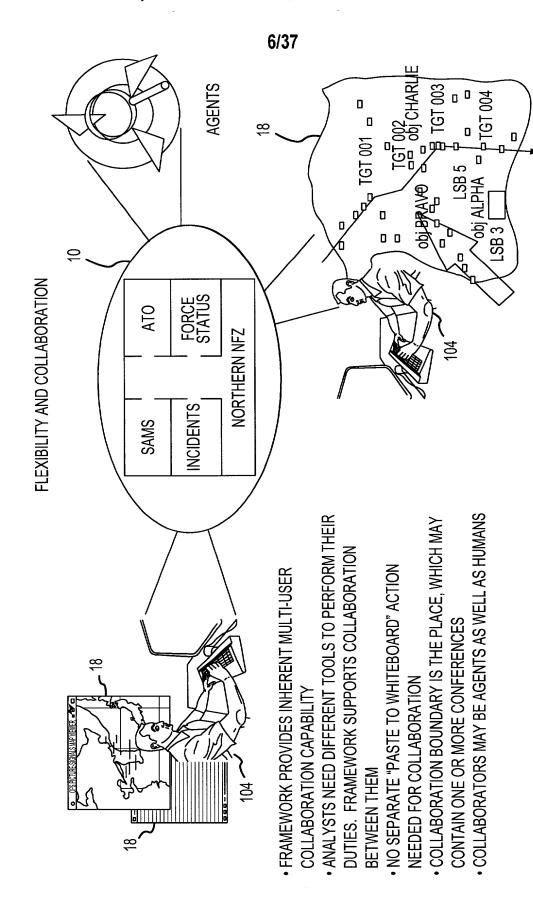


FIG 6

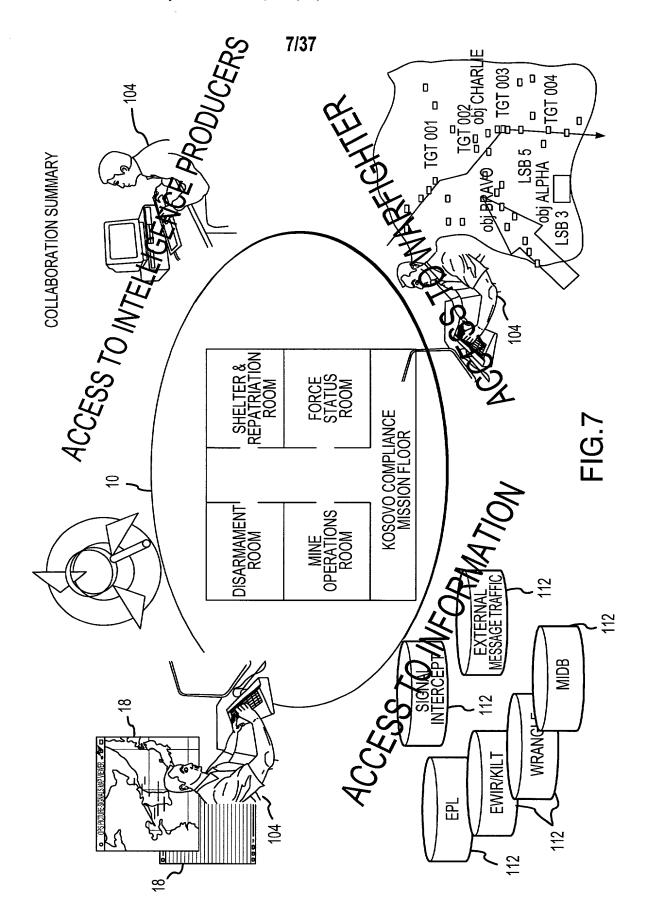
Serial No.: 09/782,926 Page 7 of 37 Fitle: "Information Access, Collaboration And Integration System And

Method"

Applicant: Douglas R. Foster, et al.

Docket No.: 41992-00405

Attorney: Robert B. Berube, Tel: (303) 338-0997



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Docket No.: 41992-00405

Attorney: Robert B. Berube, Tel: (303) 338-0997

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ARCHITECTURAL STRATEGY

KEY REFERENCE ARCHITECTURES	COTS SW INFRASTRUCTURE
 OBJECT MANAGEMENT ARCHITECTURE (OMA) 	• JAVA/C++
OPENGIS, COSSERVICES	• CORBA
 COE LAYERED ARCHITECTURE 	 ENTERPRISE JAVA BEANS
 UCA CRYPTOLOGIC FRAMEWORK 	RDBMS/ODBMS
• USIGS	 MICROSOFT WINDOWS
• GIAS	 WEB SERVER/BROWSER
	• XML/DOM
KEY DATA MODELS	
 SOM, MIDB, JCDB, ASAS, L245, ECDS, 	COTS HW
TEXTA	• UNIX SMP SERVER

-INFORMATION MANAGEMENT FRAMEWORK -INTERACTIVE ANALYSIS FRAMEWORK

LAYERED ARCHITECTURE
 DATA CENTRIC ARCHITECTURE

ARCHITECTURAL PATTERNS

 MISSION MANAGEMENT ARCHITECTURE -TASK MANAGEMENT FRAMEWORK

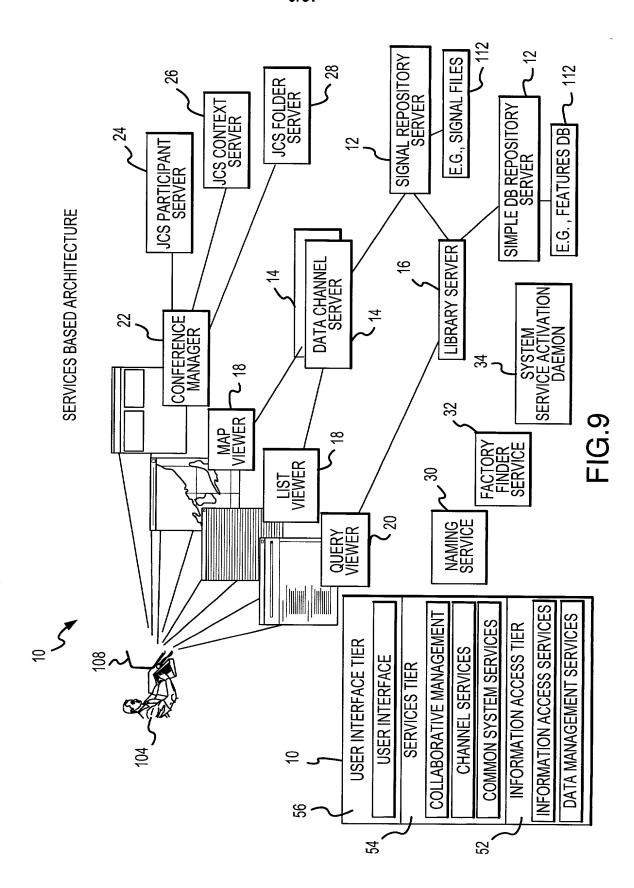
-RESOURCE MANAGEMENT FRAMEWORK

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Applicant: Douglas R. Foster, et al.

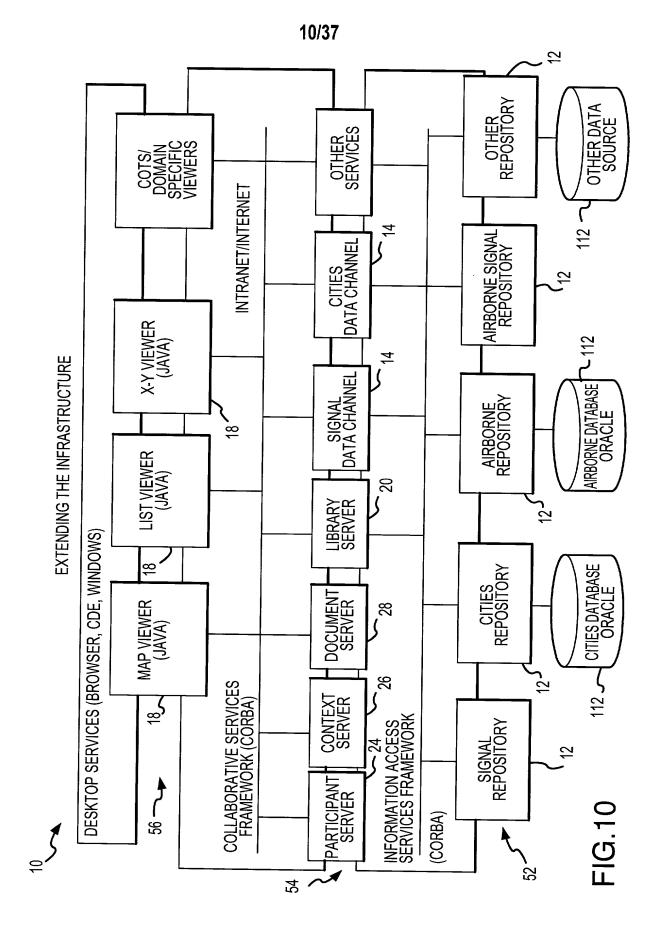
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INTEGRATION WITH LEGACY SYSTEMS

MINIMUM LEVEL INTEGRATION

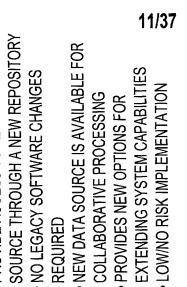
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SOURCE THROUGH A NEW REPOSITORY • NEW DATA SOURCE IS AVAILABLE FOR PROVIDE ACCESS TO LEGACY DATA NO LEGACY SOFTWARE CHANGES COLLABORATIVE PROCESSING PROVIDES NEW OPTIONS FOR REQUIRED

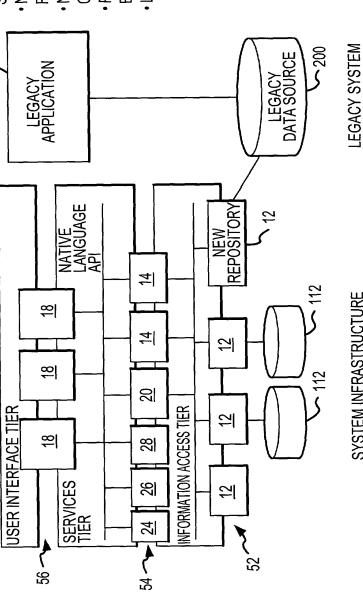


FIG.11

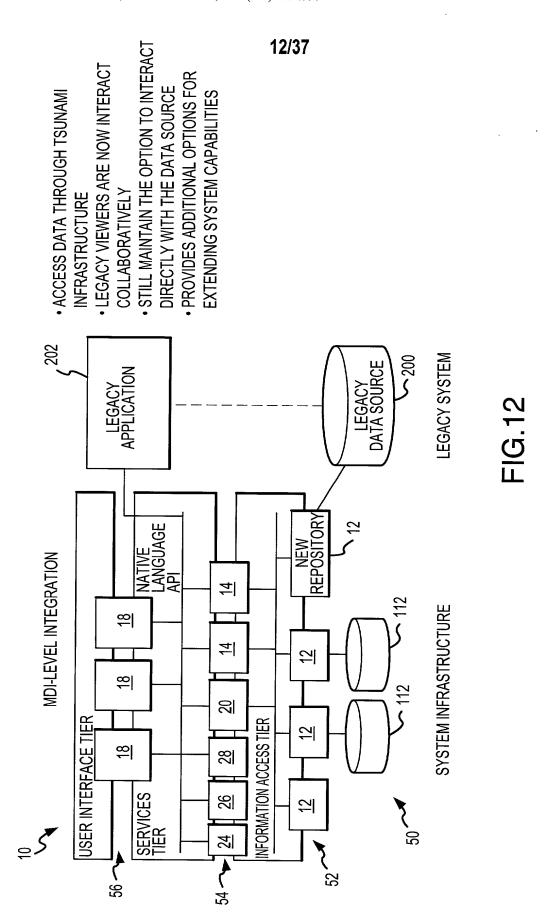
SYSTEM INFRASTRUCTURE

INTEGRATION WITH LEGACY SYSTEMS

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Applicant: Douglas R. Foster, et al.

Docket No.: 41992-00405



INTEGRATION WITH LEGACY SYSTEMS

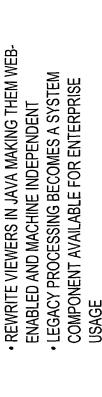
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Applicant: Douglas R. Foster, et al.

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SERVICES TIER

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FULL INTEGRATION

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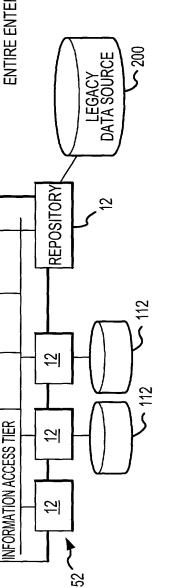
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EACH ENHANCEMENT IS AVAILABLE TO THE **ENTIRE ENTERPRISE**



LEGACY SYSTEM

SYSTEM INFRASTRUCTURE

FIG.13

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IMPORTANCE OF DATA-CENTRIC COLLABORATION FRAMEWORK

FRALL CAPABILITY NALYST SPECIFIC TOOLS---NOT SYSTEMS LABORATIVE CAPABILITIES RESULTS IN EXPONENTIAL GROWTH OF OVERALL SYSTEM

COLLABÖRÁTIÓN INTEGRAL TO FRAMEWORK
 -INSTEAD OF PASTING IMAGES ONTO A WHITEBOARD, COLLABORATE ON THE TOOL ITSELF USING WHITEBOARDING
 LAYER
 -NO SPECIAL LOGIC NEEDED IN TOOLS TO SUPPORT COLLABORATION
 -SUPPORTS LEGACY APPLICATIONS
 -DATA IS SHARED AND NOT REPLICATED, SO CHANGES TO THE DATA BY LEGACY TOOLS PROPAGATE TO
 COLLABORATIVE TOOLS.

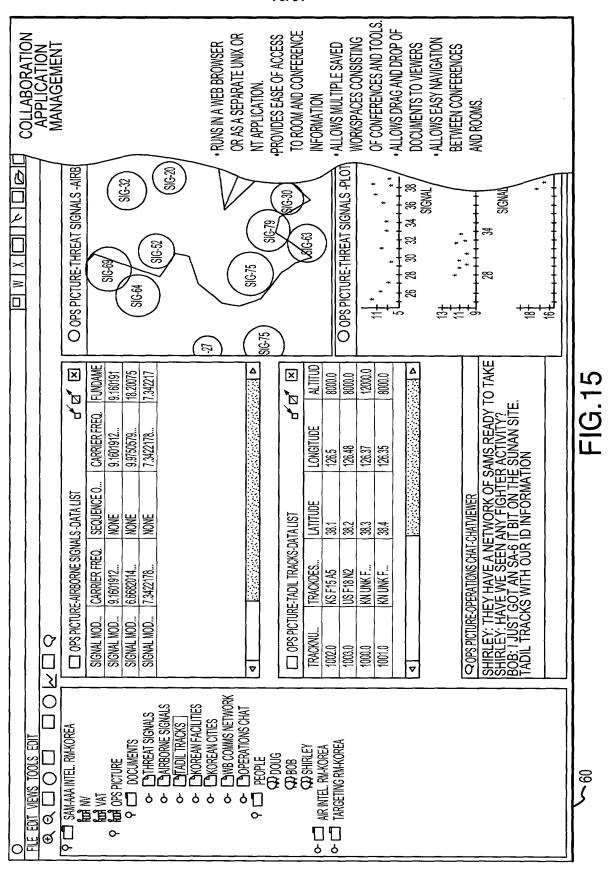
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Method"

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Attorney: Robert B. Berube, Tel: (303) 338-0997

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OLLABORATIVE APPLICATION MANAGEMENT 16/37

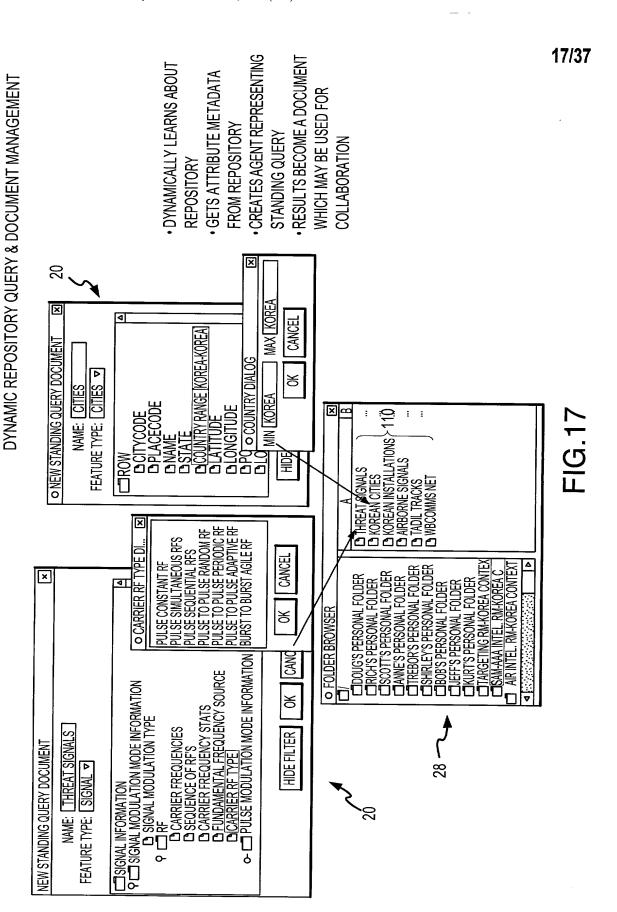
CONFERENCE OR TOOLS ASSOCIATED WITH A ROOM DOCUMENTS ARE DRAGGED AND DROPPED ONTO A DOCUMENTS, PEOPLE, TOOLS AND CONFERENCES MULTIPLE ACTIVE ROOMS/PLACES THAT CONTAIN WITHIN A CONFERENCE A PERSON OR GROUP OF NDIVIDUAL TOOLS, TOOLS ASSOCIATED WITH A TOOLS THAT ARE CONNECTED TO DOCUMENTS PEOPLE ANALYZE INFORMATION AND INTERACT CONFERENCE FROM THE DOCUMENT SERVER PEOPLE WITHIN A CONFERENCE ARE SHOWN USER CAN MINIMIZE/MAXIMIZE/REMOVE DOCUMENTS BEING USED WITHIN A CONFERENCE ARE SHOWN TO SOLVE PROBLEMS ARE SHOWN \bigcirc ☐ DATA LIST ☐ PROPERTIES TOOL PROPERTIES TOOL ■ WBCOMMS NETWORK C KOREAN FACILITIES AIRBORNE SIGNALS C OPERATIONS CHAT O MAP VIEWER
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Method"

Applicant: Douglas R. Foster, et al.

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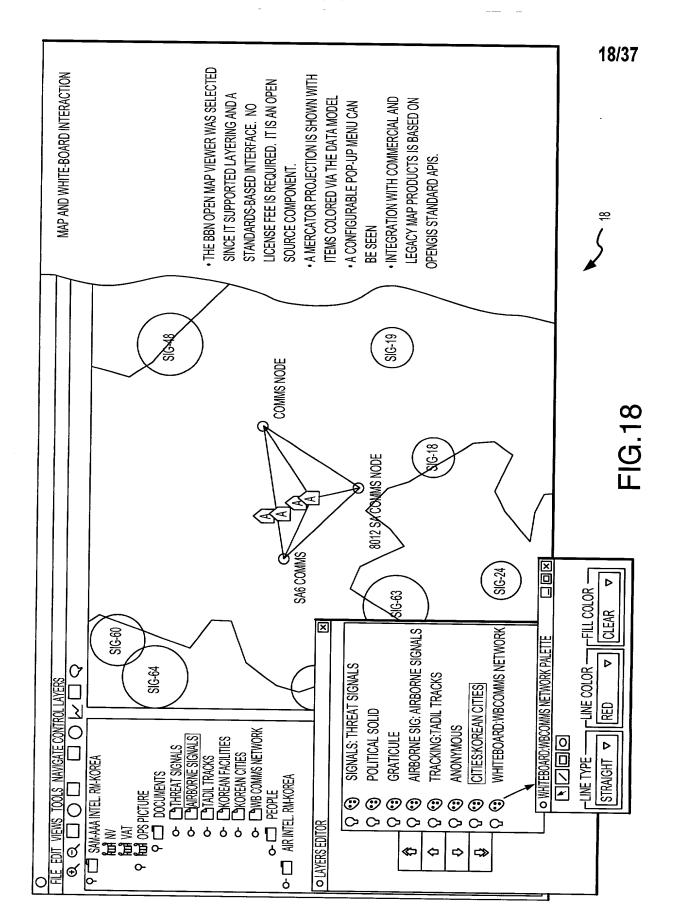


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Method"

Applicant: Douglas R. Foster, et al.

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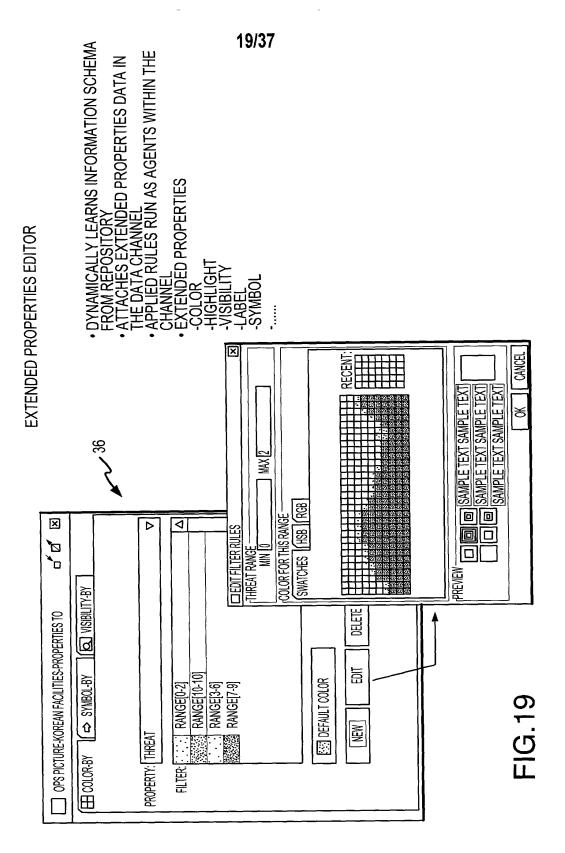


serial No.: 09/782,926 Page 19 of 37 Fitle: "Information Access, Collaboration And Integration System And Method"

Applicant: Douglas R. Foster, et al.

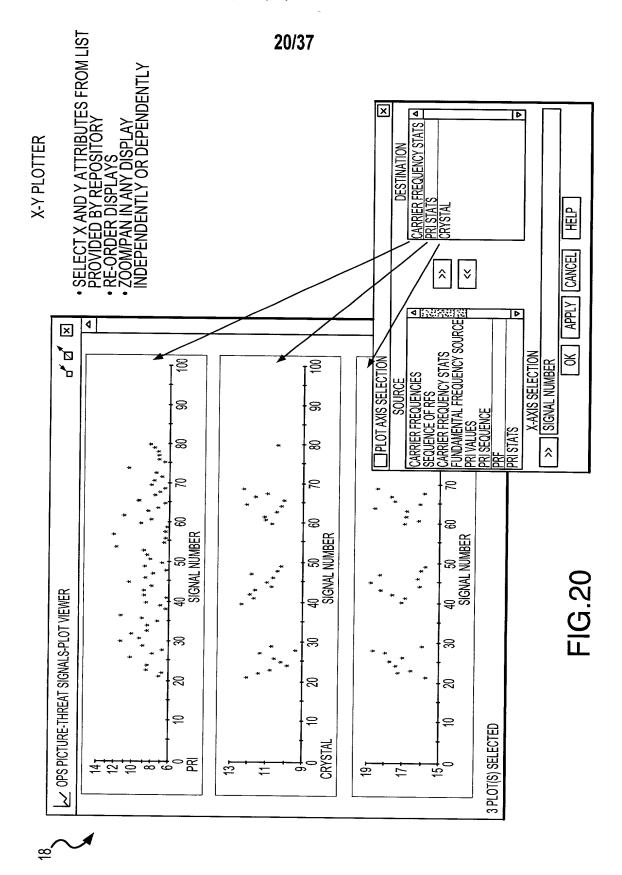
Docket No.: 41992-00405

Attorney: Robert B. Berube, Tel: (303) 338-0997



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Method"

Applicant: Douglas R. Foster, et al. Docket No.: 41992-00405

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	LATITUDE	39.233333	39.466667	39.416667	39.433333	39.562315	39.23333	38.4	39.983333	39.966667	39.683333	39.683333	17.430562	38.466667	39.466667	37.895555	38.956546	37.95	37.833333	38.433333	39.366667	37.8	37.8	39.56	37.966667	37.933333	38.965333	37.833333	37.916667	
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T OPSPICTU	SITECODE	KN00657	KN00561	KN00017	KN00492	KN00250	KN00228	SC00002	KN00380	KN00227	KN00241	KN00242	KN00250	KN00296	KN00478	KN00044	KN00045	KN00292	KN00425	KN00257	KN00521	SC00004	KN00030	KN00712	KN00019	KN00323	KN00103	KN00493	KN00195	V

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Attorney: Robert B. Berube, Tel: (303) 338-0997

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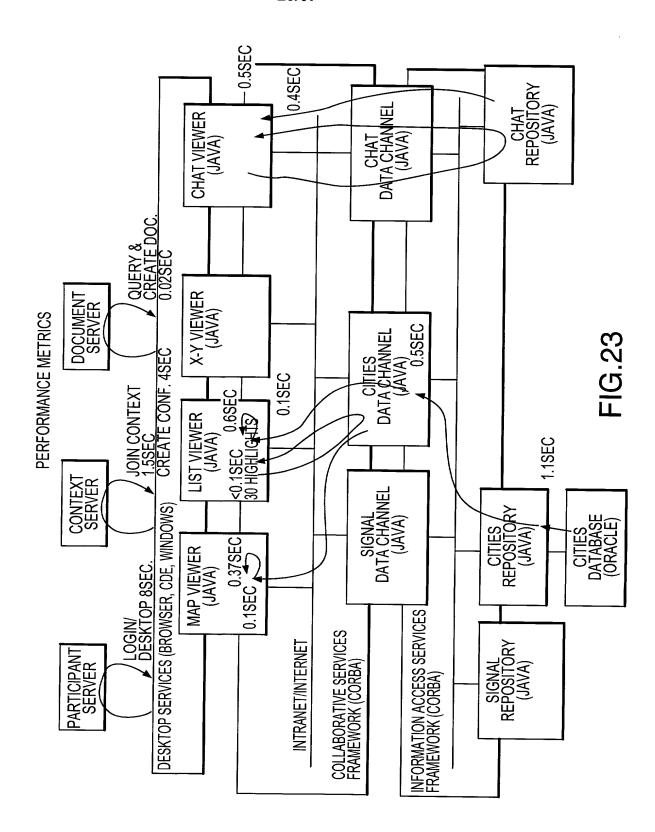
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Method"

Applicant: Douglas R. Foster, et al. Docket No.: 41992-00405

Attorney: Robert B. Berube, Tel: (303) 338-0997

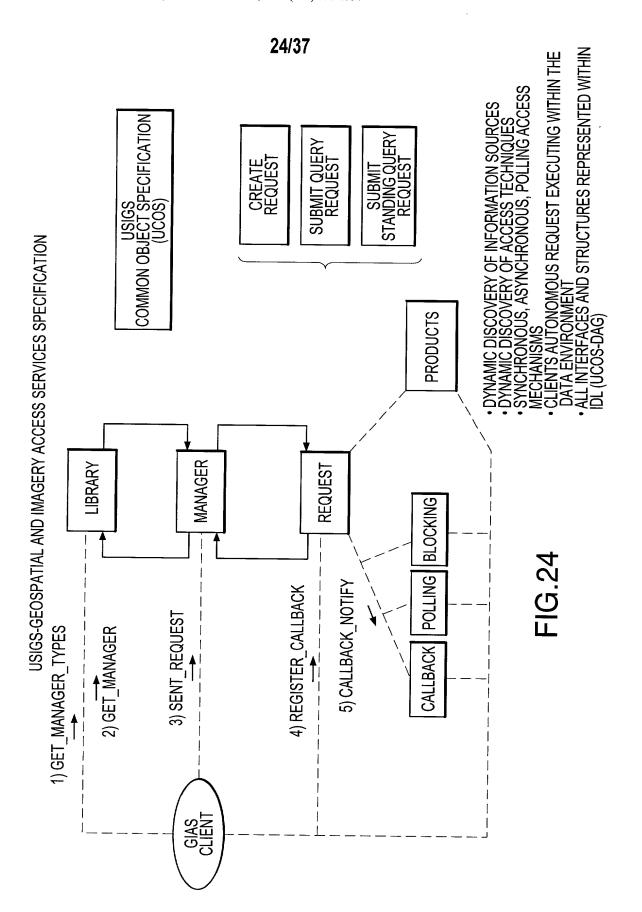
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Applicant: Douglas R. Foster, et al.

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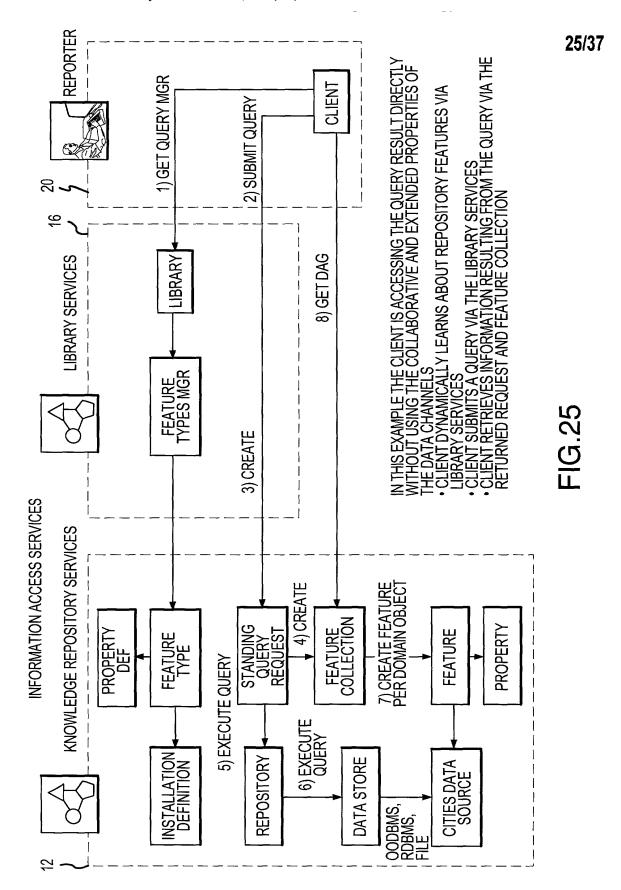


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Applicant: Douglas R. Foster, et al.

Docket No.: 41992-00405 Attorney: Robert B. Berube, Tel: (303) 338-0997

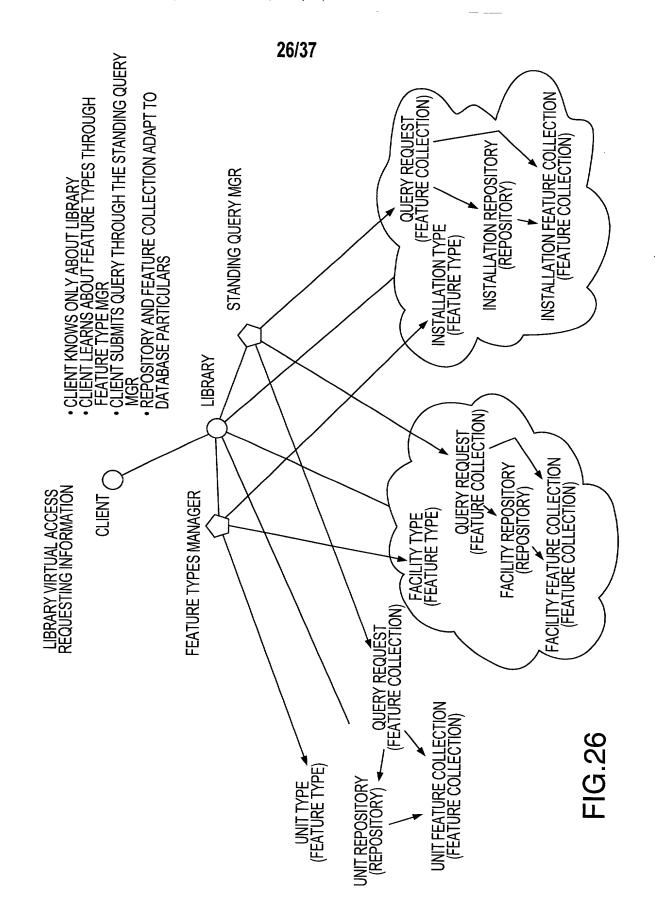


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Method"

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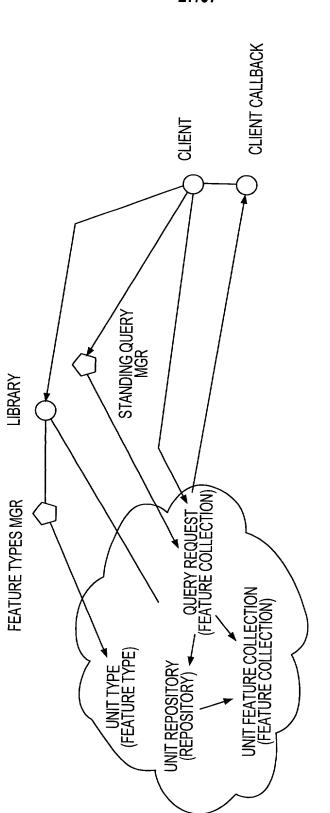


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LEAKNS ABUUT STANDING QUERY MGR THROUGH LIBRARY MANAGER RETURNS A REFERENCE TO A REQUEST OBJECT FOR EACH CLIENT QUERY JINVOCATION

INTERÁCTS WITH REQUEST FOR QUERY CONTROL AND STATUS ST SUPPORTS SYNCHRONOUS, POLLING, AND A-SYNCHRONOUS CLIENT INTERFACES. CALLBACK IS USED FOR A-SYNCHRONOUS FEEDBACK ON QUERY STATE

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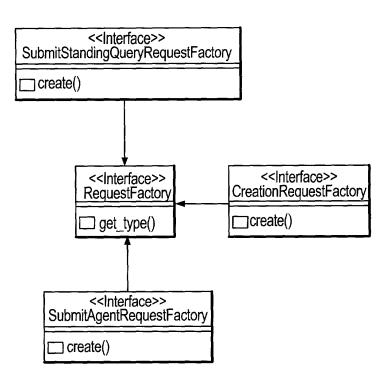
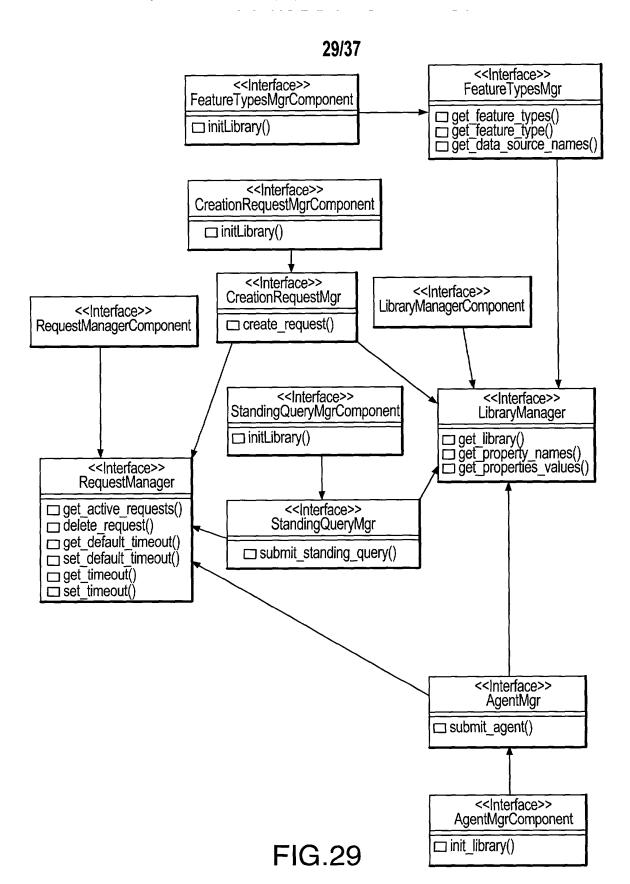


FIG.28

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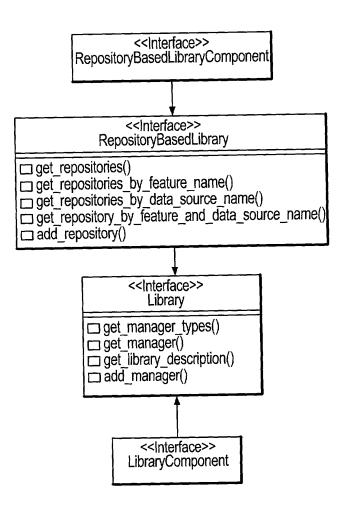


FIG.30

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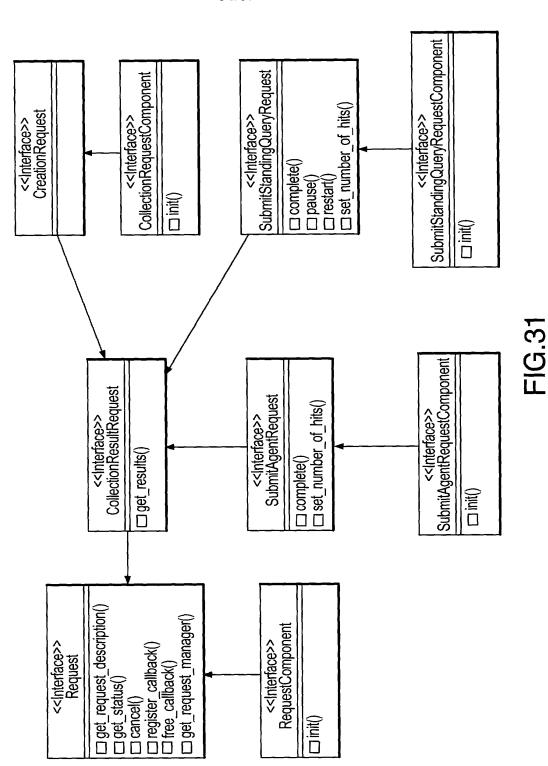
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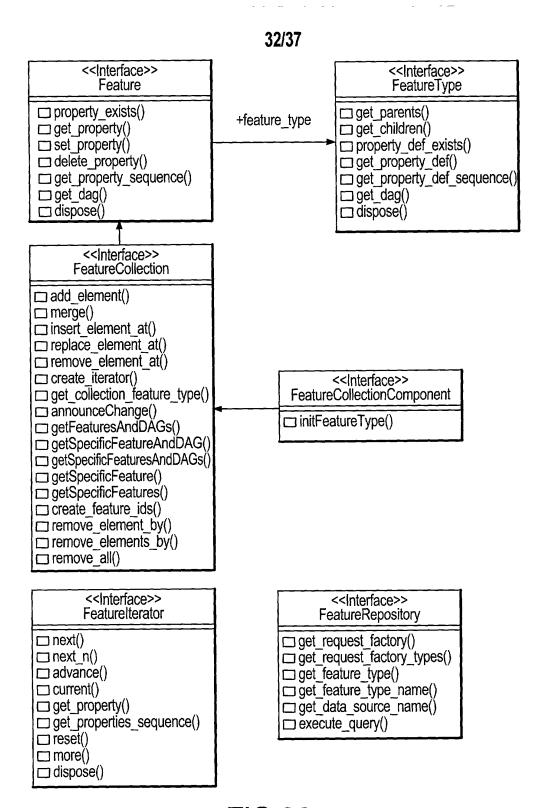
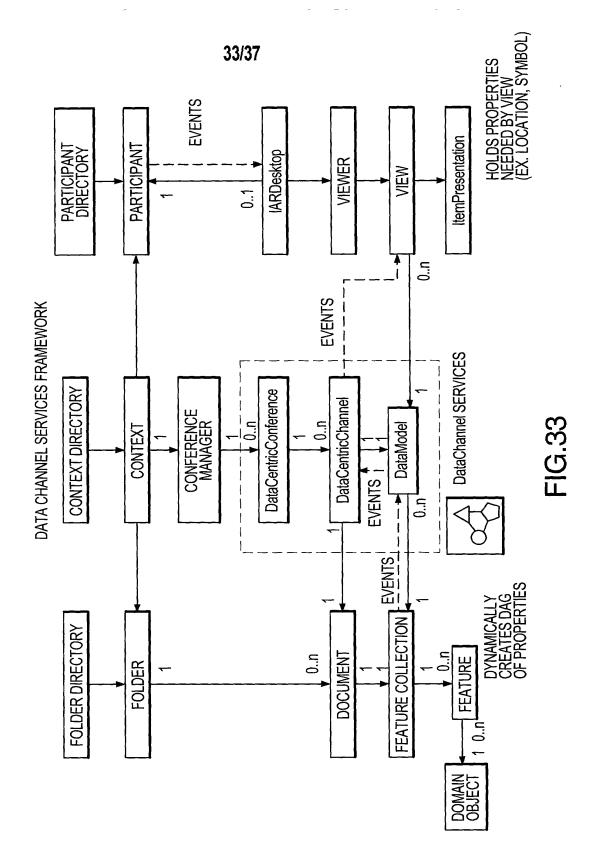


FIG.32

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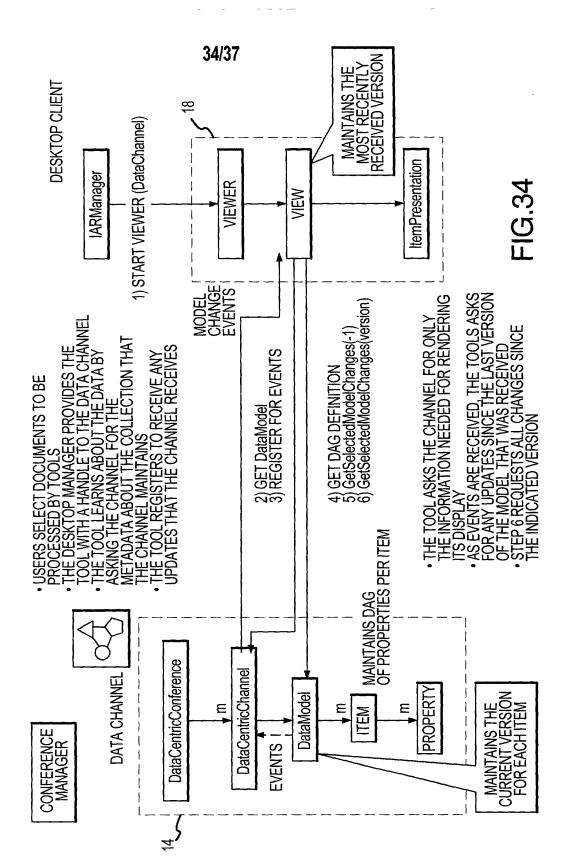
VERSIONING DATA CHANGES IN THE DATA CHANNEL

Leria. No.: 09/782,926 Page 34 of 37 Title: "Information Access, Collaboration And Integration System And

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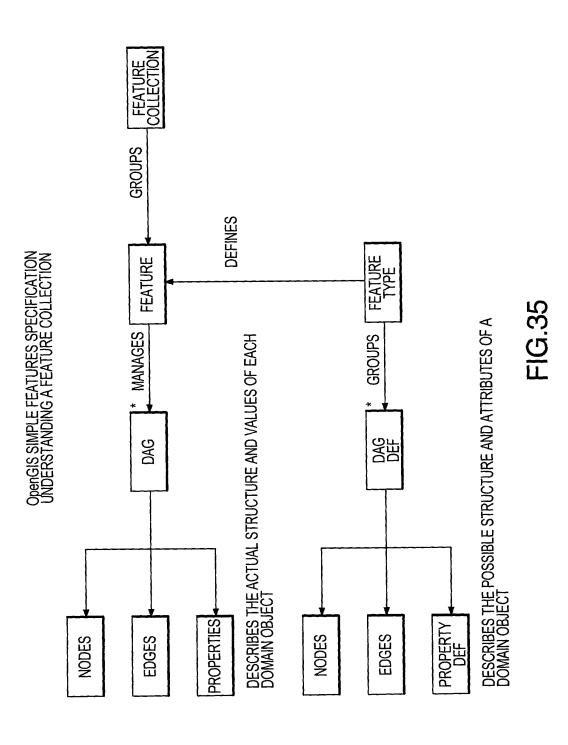
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Applicant: Douglas R. Foster, et al.

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Attorney: Robert B. Berube, Tel: (303) 338-0997

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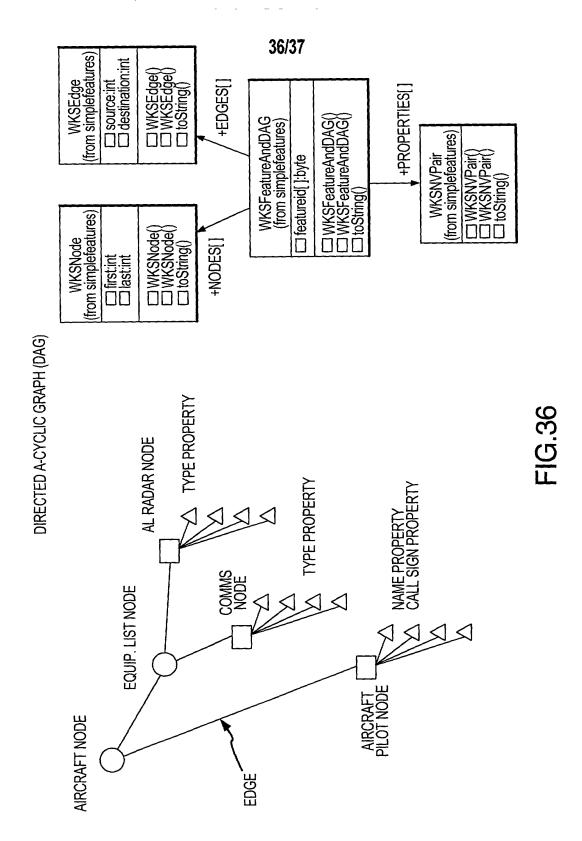
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